

SPECIFICATION

Nominal Voltage 12V (6 cells)

Nominal Capacity

20-HR.	10-HR	5-HR	3-HR	1-HR
30Ah	28Ah	26Ah	24Ah	21Ah

Approximate Net Weight 9.5 kg (20.9 lbs)

Internal Resistance (approx.) <7.5 milliohms

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)

System Voltage	12	24	36	48
Max. Charging Current (A)	0.2 C20			
Equalize Charging voltage	14.7	29.4	44.1	58.8
Standby Charging voltage	13.8	27.6	41.4	55.2

Terminal M6-Φ16

Operating Temp. Range -25°C to 55°C(-13°F~131°F)

Advice Operating Temp. 15°C~25°C(59°F~77°F)

Self Discharge

1 month 97%

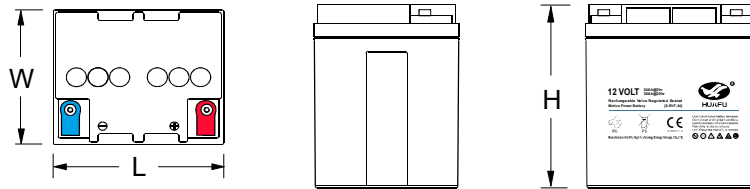
3 month 91%

6 month 83%

HUAFU EVF series's self discharge <3%/month at 20°C(68°F), The storage period may up to 6 months at 20°C(68°F) and then a freshening charge is required.

Case and cover A.B.S.
UL94-V0 Optional.

DIMENSIONS (mm)

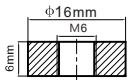


L: 165mm [6.50in]

W: 126mm [4.96in]

H: 175mm [6.89in]

Tolerances are +/-1mm (+/-0.04 in.) and +/-2mm (+/-0.08 in.) for height dimensions. All data subject to change without notice

Terminal type	M6-16
	<p>Battery Height with Terminal in millimeter (in) 175mm [6.89in] Torque Values (Nm) Bolt: 9-11</p>

EVF series are designed to provide superior performance to power your low speed electric vehicle. AGM (absorbed glass mat) gel (fumed silica) technology combined with lasted innovative design, results in a battery that of offers increaed power, longer life and excellent reliability. Valve regulated sealed type provide a 100% maintenance free motive battery.

Confidence is knowing the battery, will outlast keep your forklift, golf cart, sweeper, wheelchair moving.

APPLICATION

A whole range of EV applications including but not limited to:



Golf Cart



Wheelchair



Electric Tricycle



E-Forklift



Scissor Lift

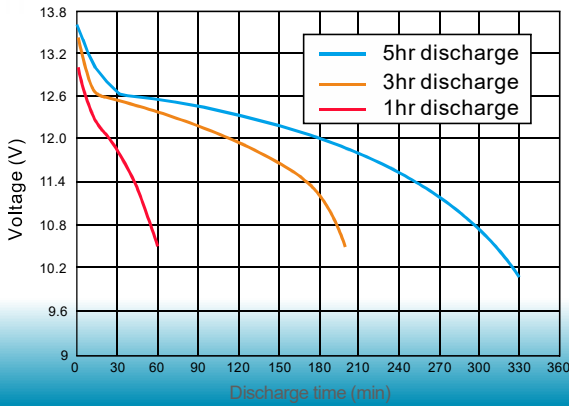


Sweeper

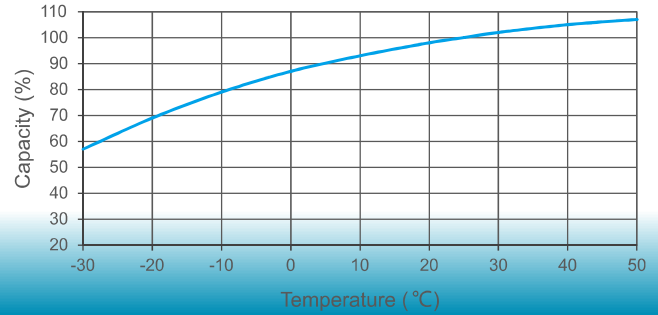
FEATURE

- Anti-vibration effect: adopting enhanced vibration-resistance design, battery can be used in low speed electric vehicle without a shock proof system.
- Good recovery performance: adopting the unique formula of active materials, the battery is resistance to deep discharging and has good recovery performance
- Excellent big current discharge performance: adopting low resistance material, the inner resistance is smaller
- Low/High temperature resistance: suitable for indoor and outdoor use in varies environment.
- Patented nanometer level fumed silica gel electrolyte
- Strict quality control manufacturing processes, ISO9001 approve
- IEC, CE, RoHS, ISO9001,ISO14001

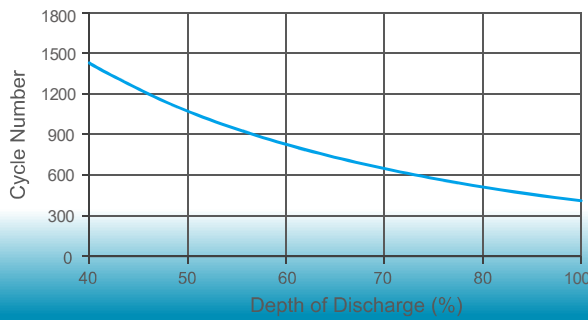
Discharge Curve (25 °C)



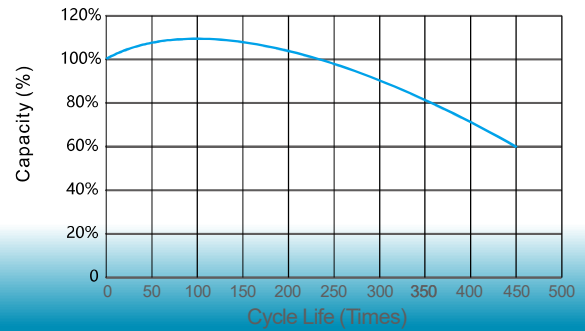
Temperature Vs Battery Capacity



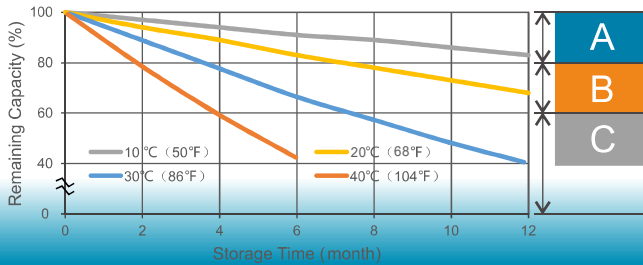
Cycle Life Vs Depth of Discharge



Cycle Life Vs Remaining Capacity

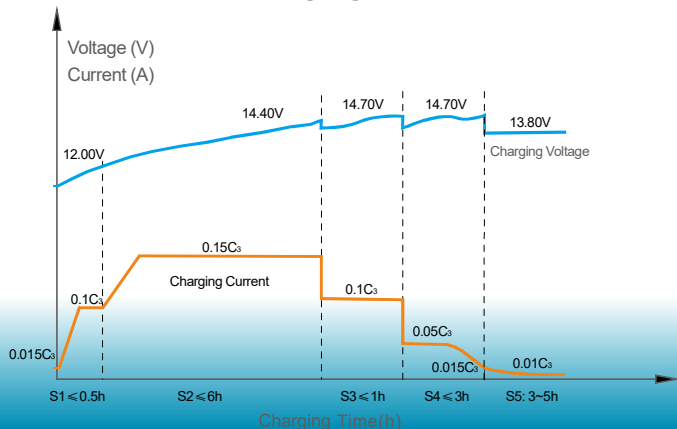


Self Discharge Characteristics



- A** Charging is not necessary unless 100% of capacity is required.
- B** Charging before use is necessary to help recover full capacity.
- C** Charging may fail to restore full capacity. Do not let batteries reach this state.

Charging Curve



Description of charging process and related parameters

- (1) The first stage: pre-charging, Charging with constant current 0.1C₃ to 12V or last 0.5h, it will automatically jump to the second stage. This stage is mainly to prevent that the battery voltage is too low because of useless for a long time. This stage can be omitted if the battery are fresh
- (2) The second stage: Charging with constant current 0.15C₃ to 14.4V or last 6h, it will automatically jump to the third stage
- (3) The third stage: Charging with constant voltage 14.7V limited current 0.1C₃ for 1h, automatically jump to the fourth stage
- (4) The fourth stage: Constant voltage 14.7V limited current 0.05C₃ charging, when the current gradually drops to 0.015C₃ or last 3h, automatically jump to the fifth stage
- (5) Fifth stage: Float charging, voltage 13.8V, limited current 0.01C₃ for 3-5h (if the current at this stage keep the value no change at 0.01C₃ for more than 1h, the charger should alarm)

Temperature Compensation: -3 mV/cell/°C.